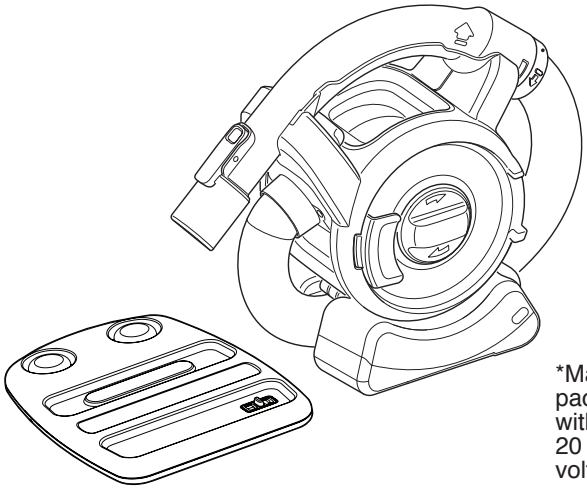
BLACK&DECKER®

20V MAX* CORDLESS MINI CANISTER VAC

Catalog Number BDH2000FL (20V MAX*)



*Maximum initial battery pack voltage (measured without a workload) is 20 volts. The nominal voltage is 18.

Thank you for choosing Black & Decker!
Go to www.BlackandDecker.com/NewOwner
to register your new product.

PLEASE READ BEFORE RETURNING THIS PRODUCT FOR ANY REASON:

If you have a question or experience a problem with your Black & Decker purchase, go to

HTTP://WWW.BLACKANDDECKER.COM/INSTANTANSWERS

for instant answers 24 hours a day. If you can't find the answer or do not have access to the internet, call 1-800-544-6986 from 8 a.m. to 5 p.m. EST Mon. -- Fri. to speak with an agent. Please have the catalog number available when you call.

SAVE THIS MANUAL FOR FUTURE REFERENCE.
FOR HOUSEHOLD USE ONLY.

VEA EL ESPANOL EN LA CONTRAPORTADA.

INSTRUCTIVO DE OPERACIÓN, CENTROS DE SERVICIO Y PÓLIZA DE GARANTÍA.
⚠**ADVERTENCIA:** LÉASE ESTE INSTRUCTIVO ANTES DE USAR EL PRODUCTO.

SAFETY GUIDELINES - DEFINITIONS

It is important for you to read and understand this manual. The information it contains relates to protecting YOUR SAFETY and PREVENTING PROBLEMS. The symbols below are used to help you recognize this information.

⚠**DANGER:** Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠**WARNING:** Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠**CAUTION:** Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

CAUTION: Used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

IMPORTANT SAFETY INSTRUCTIONS

When using an electrical appliances, basic precautions should always be followed, including the following:

READ ALL INSTRUCTIONS BEFORE USING THE APPLIANCE.

⚠**WARNING:** **Read all safety warnings and all instructions.** Failure to follow the warnings and instructions listed below may result in electric shock, fire and/or serious injury.

⚠**WARNING:** Some household dust contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm such as asbestos and lead in lead based paint.

⚠**WARNING:** To reduce the risk of fire, electrical shock or injury:

- Close supervision is necessary when any appliance is used by or near children. Do not allow to be used as a toy.
- **Shock Hazard**. To protect against risk of electrical shock, do not put unit or charging base in water or other liquid.
- Do not use dry hand vacs to pick up liquids, toxic substances, flammable or combustible liquids such as gasoline or use in areas where they may be present.
- Do not use wet/dry hand vacs to pick up toxic substances, flammable or combustible liquids such as gasoline or use in areas where they may be present.
- Do not operate in the presence of explosives and/or flammable fumes or liquids.
- **Shock Hazard**. Do not operate any appliance with a damaged cord or charger or after the appliance malfunctions, is left outdoors, dropped into water or is damaged in any manner. Return the appliance to any authorized service facility.
- Do not use dry hand vacs outdoors or on wet surfaces.
- Do not abuse the cord. Never carry the charger or base by the cord or yank to disconnect from an outlet; instead grasp the charger and pull to disconnect. Keep cord away from heated surfaces. Do not pull cord around sharp edges or corners.
- Do not allow the cord to hang over the edge of a table or counter or touch hot surfaces. The unit should be placed or mounted away from sinks and hot surfaces.
- Do not use an extension cord. Plug the charger directly into an electrical outlet.
- Use the charger only in a standard electrical outlet (120V/60Hz).
- Do not attempt to use the charger with any other product; do not attempt to charge this product with any other charger. Use only the charger supplied by the manufacturer to recharge.
- Keep hair, loose clothing, and all parts of body away from openings and moving parts.
- Do not insert accessories when unit is running.
- **Shock Hazard**. Do not handle plug or appliance with wet hands.
- Do not put any object into unit openings. Do not use with any openings blocked; keep free of dust, lint, hair, and anything that may reduce air flow.
- **Fire Hazard**. Do not vacuum burning or smoking materials, such as lit cigarette butts, matches or hot ashes.

- Do not charge the unit outdoors
- Do not use on or near hot surfaces.
- Use extra caution when cleaning on stairs.
- This appliance is intended for household use only and not for commercial or industrial use.
- Use only as described in this manual. Use only manufacturer's recommended attachments.
- Unplug the charger from outlet before any routine cleaning or maintenance.
- This product includes rechargeable Lithium Ion batteries. Do not incinerate batteries as they will explode at high temperatures.
- **If battery contents come into contact with the skin, immediately wash area with mild soap and water.** If battery liquid gets into the eye, rinse water over the open eye for 15 minutes or until irritation ceases. If medical attention is needed, the battery electrolyte for Lithium Ion batteries is composed of a mixture of liquid organic carbonates and lithium salts.

⚠**WARNING:** Do not look into the air vents when the unit is switched on, as sometimes there is a possibility of small debris being discharged from the air vents, especially after cleaning / replacement of the filters as debris inside the unit can be disturbed.

- The charger supplied with this product is intended to be plugged in such that it is correctly orientated in a vertical or floor mount position.

SAFETY WARNINGS AND INSTRUCTIONS: BATTERIES

- Do not disassemble or open, drop (mechanical abuse), crush, bend or deform, puncture, or shred.
- Do not modify or remanufacture, attempt to insert foreign objects into the battery, immerse or expose to water or other liquids, or expose to fire, excessive heat including soldering irons, or put in microwave oven.
- Only use the battery / tool with a charging system specified by the manufacturer/supplier.
- Do not short-circuit a battery or allow metallic or conductive objects to contact both battery terminals simultaneously.
- Dispose of used batteries promptly according to the manufacturer/supplier's instructions.
- Improper battery use may result in a fire, explosion, or other hazard.
- Battery / tool usage by children should be supervised.

SAFETY WARNINGS AND INSTRUCTIONS: CHARGING

1. This manual contains important safety and operating instructions.
2. Before using battery charger, read all instructions and cautionary warnings on battery charger and product using battery. ⚠**CAUTION:** To reduce the risk of injury, use this charger only with this product. Batteries in other products may burst causing personal injury or damage.
3. Do not expose charger to rain or snow.
4. Use of an attachment not recommended or sold by Black & Decker may result in a risk of fire, electric shock, or injury to persons.
5. To reduce risk of damage to electric plug and cord, pull by plug rather than cord when disconnecting charger.
6. Make sure cord is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.
7. An extension cord should not be used unless absolutely necessary. Use of improper extension cord could result in a risk of fire, electric shock or electrocution.
8. Use only the supplied charger when charging your tool. The use of any other charger could damage the tool or create a hazardous condition.
9. Use only one charger when charging.
10. Do not attempt to open the charger. There are no customer serviceable parts inside. Return to any authorized Black & Decker service center.
11. DO NOT incinerate the tool or batteries even if they are severely damaged or completely worn out. The batteries can explode in a fire. Toxic fumes and materials are created when lithium ion battery packs are burned.
12. Do not charge or use battery in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Inserting or removing the battery from the charger may ignite the dust or fumes.
13. If battery contents come into contact with the skin, immediately wash area with mild soap and

water. If battery liquid gets into the eye, rinse water over the open eye for three minutes or until irritation ceases. If medical attention is needed, the battery electrolyte is composed of a mixture of liquid organic carbonates and lithium salts.

⚠WARNING: Burn hazard. Battery liquid may be flammable if exposed to spark or flame.

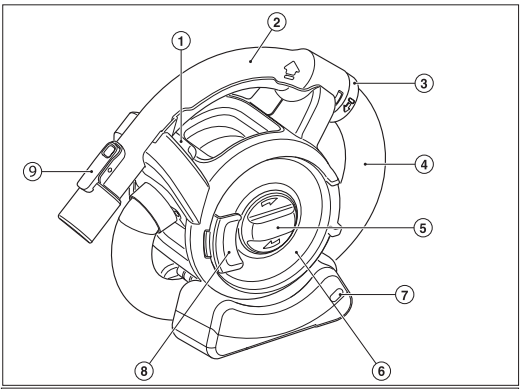
Symbols

- The label on your tool may include the following symbols. The symbols and their definitions are as follows:

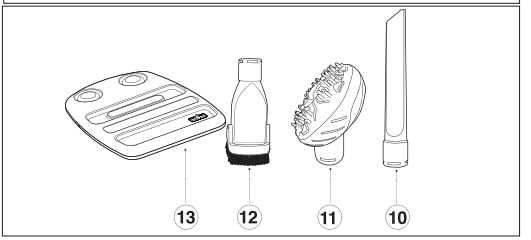
V.....volts
Hz.....hertz
min .....minutes
⎓ or DC ..direct current
Ⓘ .....Class I Construction (grounded)
⧈ .....Class II Construction (double insulated)
A.....amperes
W.....watts
~ or AC.....alternating current
n_o.....no load speed
⏚ .....earthing terminal
⚠ .....safety alert symbol
.../min or rpm..revolutions or reciprocation per minute

SAVE THESE INSTRUCTIONS

PRODUCT FEATURES



1. On/Off switch
2. Removable hose / handle
3. Locking ring
4. Hose
5. Filter cleaning wheel
6. Transparent door
7. LED charging indicator
8. Door latch
9. Accessory clip
10. Long crevice tool
11. Pet hair cleaning tool
12. 2-in-1 nozzle / brush tool
13. Charging base



ASSEMBLY

Mounting accessories (figures A & B)

The 2-in-1 nozzle / brush tool (12) has a brush that can be folded forward for dusting and upholstery cleaning. The pet hair cleaning tool (11) is for use when vacuuming pet hair and/or ground-in debris from carpeted or upholstery surfaces.

⚠WARNING: Injury to pets. Do not use pet hair cleaning tool directly on animals.

The crevice tool (10) allows for vacuuming in narrow and hard to-reach places.

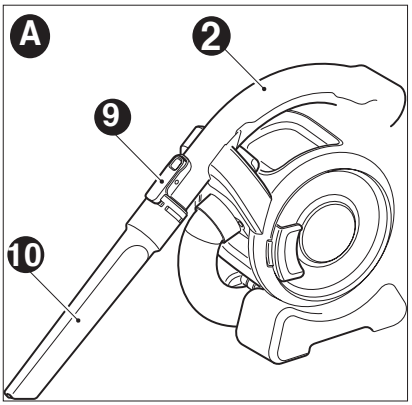
• To attach an accessory, press the accessory clip (9) and slide the accessory onto the handle (2).

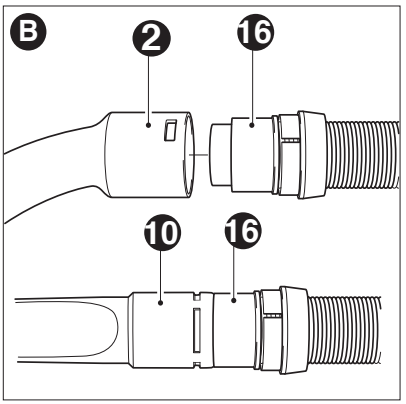
• To remove an accessory, press the accessory clip (9) and remove the accessory.

To unwrap and extend the handle and hose:

The handle and hose can be unwrapped from the main appliance for extended reach when cleaning. Grab the handle where the arrows indicate and lift upwards. Unwrap the handle and hose from the main appliance. The hose can extend up to approximately 4 feet (1.21m).

To place the handle and hose back onto the main appliance, wrap the hose back underneath and around the vac making sure that the hose fits between the two “feet” of the appliance. Align the handle with its cradle and click back into place. The handle (2) can be removed from the hose allowing the accessories to be connected directly to the hose cuff (16) when desired.



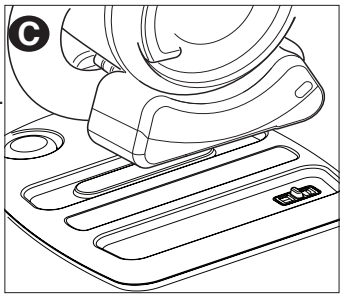


To remove the handle:
- Unclip the handle (2) from the appliance.
- Rotate the locking ring (3) counterclockwise to release the clips.
- Pull the hose away from the handle (2).
- Fit the accessory directly to the hose cuff (16).

To refit the handle:
- Remove the accessory from the hose.
- Push the hose into the handle (2). Rotate locking ring (3) clockwise until it clicks into place.

CHARGING THE BATTERY (figure C)

⚠WARNING: Charge only at ambient temperatures between 39°F (4°C) and 104°F (40°C). The charger supplied with this product is intended to be plugged in such that it is correctly oriented in a vertical or floor mount position.



NOTE: Before first use, the batteries must be charged until LED illuminates continuously.
- Connect the appliance to the charger base (7).
- Charge the batteries as described in "Charging the battery" section.

You may need to charge/discharge the appliance a minimum of 5 times in order to achieve the best running time performance.

To charge the appliance:
- Make sure that the appliance is switched off. The battery will not be charged with the on/off power switch (1) in the on position.
- Place the appliance on the charging base (13)
- Plug in the charger into a standard 120 Volt 60 Hz electrical outlet.
- The charging indicator (7) will flash continuously (slowly)
- Leave the appliance to charge. Aproximate charge time is 4 hours.

While charging, the charger may become warm. This is normal and does not indicate a problem. The appliance can be left connected to the charger indefinitely. The charge is complete when the charging indicator (7) lights continuously. The charger and the battery can be left connected indefinitely with the LED illuminated. The LED will change to flashing (charging) state as the charger occasionally tops off the battery charge.
- Charge discharged batteries within 1 week. Battery life will be greatly diminished if stored in a discharged state.

Note: The charger will not charge a battery if the cell temperature is below approximately 32°F (0°C) or above 104°F (40°C). The battery should be left in the charger and the charger will begin to charge automatically when the cell temperature warms up or cools down.

Recharge discharged batteries as soon as possible after use or battery life may be greatly diminished.

⚠WARNING: Do not use tool while it is connected to the charger.

BATTERY DIAGNOSTICS

If the appliance detects a weak battery, the charging indicator will flash at a fast rate. Proceed as follows:

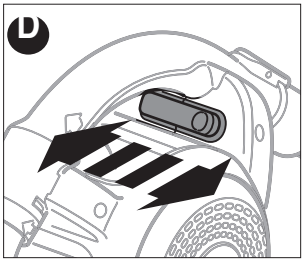
- Place the appliance on the charging base.
- Plug in the charger.
- Leave the appliance to charge.

If the appliance detects a damaged battery, the charging indicator will flash at a fast rate when the appliance is on the charger base. Proceed as follows:

- Take the appliance and the charger to be tested at an authorized service facility.

Note: It may take as long as 60 minutes to determine that the battery is defective. If the battery is too hot or too cold, the LED will alternately blink, fast and slow, one flash at each speed and repeat.

OPERATION



SWITCHING ON AND OFF

• To switch the appliance on, slide the on/off switch (1) to the right to position 1. **(figure D)**
• To switch the appliance off, slide the on/off switch (1) to the left until it clicks into the off position. **(figure D)**

VACUUMING

• When operating the appliance, make sure that the hose is not trapped, twisted or blocked.

Two cleaning modes:

1. You can vacuum with the handle (2) and hose (4) wrapped around the main appliance. Cleaning in this mode is great for quick pick-ups because the vac is in it's most compact form.
2. You can vacuum with the handle (2) and hose (4) unwrapped from the main appliance allowing you to reach up to approximately 4 feet (1.2 m) from the appliance.

• With handle and hose unwrapped the appliance can be carried using the built-in handle on the main appliance.
• The handle can also be removed from the hose so that you can connect an accessory directly to the hose cuff (16) when desired.

Hints for optimum use

• When vacuuming stairs, always start at the bottom and work your way up.
• Use the pet hair cleaning tool to agitate and suction up pet hair and ground-in debris from carpeted or upholstery surfaces.

Optimizing the suction force

In order to keep the suction force optimized, the filters must be cleared regularly during use.

• Turn the filter cleaning wheel (5) two turns clockwise to remove any dust from the filters.
• The fine particulate filter must be cleaned regularly, see "Cleaning the fine particulate filter" section.

CLEANING AND MAINTENANCE

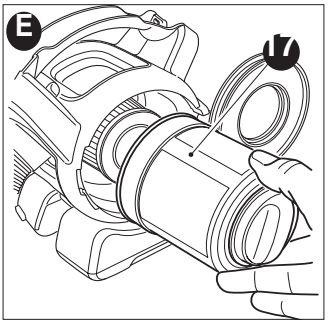
Emptying the dust container

The dust container must be emptied regularly, preferably after every use.

• Pull the door latch (8) and open the transparent door (6) 180 degrees.
• Tilt unit to empty dirt.
• Tap the back end of unit if debris does not fall out easily or remove filters for better access.

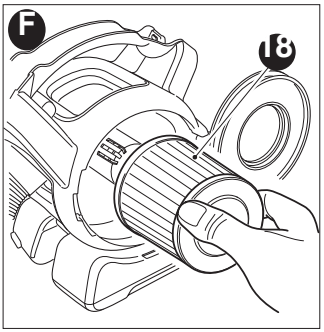
⚠**WARNING:** Do not, under any circumstances rinse out the dust container or immerse the appliance in water. A damp cloth and soapy water should be used to clean the exterior of the appliance. Always make sure that the appliance is completely dry before re-use or storing.

CLEANING FILTERS (figures E,F)



Both the plastic pre-filter (17) and the pleated filter (18) are re-usable and should be cleaned regularly.

- Pull the door latch (8) and open the transparent door (6) 180 degrees.
- Remove the pre-filter (17) from the appliance as shown in **figure E**.
- Remove the pleated filter (18) by pulling firmly **(figure F)**.
- Tap the filters vigorously to remove loose dust.
- If necessary, wash the filters in warm, soapy water.
- Make sure that the filters are dry.
- Refit the pleated filter (18) into the dust container.
- Refit the pre-filter (17) into the dust container.
- Close the transparent door (7) and make sure that it clicks into place.



TROUBLESHOOTING

If the product does not work, check the following:

- The charger was correctly plugged in for recharge. (It feels slightly warm to the touch.)
- The charger cord is not damaged and is correctly attached to the appliance.
- The charger is plugged into a working electrical outlet.
- The appliance was switched to the off position to charge. The battery will not be charged with the switch in the "on" position.
- The filter is clogged. Pull the door latch and open the dust container door. Remove the pre-filter and the fine filter. Brush any loose dust off the filters and wash them in warm, soapy water. Make sure the filters are dry before placing back in the vacuum.

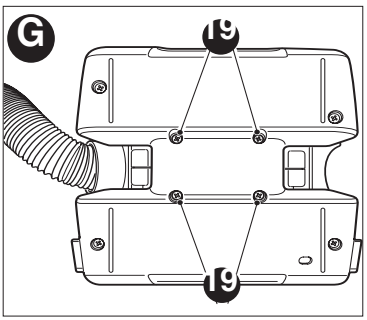
For assistance with your product, visit our website **www.blackanddecker.com** for the location of the service center nearest you or call the BLACK & DECKER help line at **1-800-544-6986.**

BATTERY REMOVAL AND DISPOSAL

This product uses Lithium Ion rechargeable and recyclable batteries. When the batteries no longer hold a charge, they should be removed from the Vac and recycled. They must not be incinerated or composted.

The batteries can be taken for disposal to a Black & Decker, Company-Owned or Authorized Service Center. Some local retailers are also participating in a national recycling program (see "RBRC Seal"). Call your local retailer for details. If you bring the batteries to a Black & Decker Company-Owned or Authorized Service Center, the Center will arrange to recycle old batteries. Or, contact your local municipality for proper disposal instructions in your city/town.

To remove the battery pack for disposal:



1.) First, before attempting to disassemble the product, turn it on and leave it on until the motor completely stops insuring a complete discharge of the batteries.

2.) Invert the appliance to get access to the screws that attach the base.

3.) Remove the four screws (19) shown in (**figure G**)

4.) Remove the base.

5.) Disconnect the 3-pin connector.

6.) Place the battery in suitable packaging to prevent a short circuit of the battery terminals.

7.) Dispose of batteries as per recommended guidelines.

MAINTENANCE

Use only mild soap and damp cloth to clean the vac. Never let any liquid get inside the vac; never immerse any part of the vac into a liquid.

⚠WARNING: **Make sure the vacuum is completely dry before using it.**

IMPORTANT: To assure product SAFETY and RELIABILITY, repairs, maintenance and adjustment (other than those listed in this manual) should be performed by authorized service centers or other qualified service organizations, always using identical replacement parts.

THE RBRC™ SEAL

The RBRC™ (Rechargeable Battery Recycling Corporation) Seal on the LI-ION battery (or battery pack) indicates that the costs to recycle the battery (or battery pack) at the end of its useful life have already been paid by **Black & Decker**.
RBRC™ in cooperation with **Black & Decker** and other battery users, has established programs in the United States to facilitate the collection of spent LI-ION batteries. Help protect our environment and conserve natural resources by returning the spent LI-ION battery to an authorized **Black & Decker** service center or to your local retailer for recycling. You may also contact your local recycling center for information on where to drop off the spent battery. RBRC™ is a registered trademark of the *Rechargeable Battery Recycling Corporation.*

SERVICE INFORMATION

All Black & Decker Service Centers are staffed with trained personnel to provide customers with efficient and reliable power tool service. Whether you need technical advice, repair, or genuine factory replacement parts, contact the Black & Decker location nearest you. To find your local service location, call: **1-800-544-6986 or visit www.blackanddecker.com**

THREE-YEAR LIMITED GUARANTEE

Black & Decker (U.S.) Inc. guarantees this product to be free from defects in material or workmanship for a period of three (3) years following the date of purchase, provided that the product is used in a home environment. This limited guarantee does not cover failures due to abuse, accidental damage or when repairs have been made or attempted by anyone other than Black & Decker and its Authorized Service Centers. A defective product meeting the guarantee conditions set forth herein will be replaced or repaired at no charge in either of two ways:
The first, which will result in exchanges only, is to return the product to the retailer from whom it was purchased (provided that the store is a participating retailer).Returns should be made within the time period of the retailer's policy for exchanges. Proof of purchase may be required. Please check with the retailer for its specific return policy regarding time limits for returns or exchanges.
The second option is to take or send the product (prepaid) to a Black & Decker owned or authorized Service Center for repair or replacement at Black & Decker's option. Proof of purchase may be required. Black & Decker owned and authorized service centers are listed online at **www.blackanddecker.com**.
This gaurentee does not apply to accessories. This gaurentee gives you specific legal rights and you may have other rights which vary from state to state. Should you have any questions, contact the manager of your nearest Black & Decker Service Center. This product is not intended for commercial use, and accordingly, such commercial use of this product will void this guarantee. All other guarentees, express or implied, are hereby disclaimed.
LATIN AMERICA: This guarantee does not apply to products sold in Latin America. For products sold in Latin America, check country specific guarantee information contained in the packaging, call the local company or see the website for such information

Imported by
Black & Decker (U.S.) Inc.,
701 E. Joppa Rd.
Towson, MD 21286 U.S.A.

BlackandDecker.com
1-800-544-6986

Powered by an ENERGY STAR® qualified battery charger for a better environment